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Cat. No. 43-722

OWNER'S MANUAL

Please read before using this equipment.

TAD-222

Touch Tone Remote Control Telephone Answering System

Radio Shack

FEATURES

Your Radio Shack TAD-222 Touch Tone Remote Control Telephone Answering System is a high-quality system. The remote control feature lets you use most of your answering machine's functions from almost any touch-tone phone. Your TAD-222 is easy to operate and ideal for use in either your home or office.

The TAD's features include:

Digitally Recorded Outgoing Message (OGM) — records your message on a computer chip for clear quality sound.

Remote Control Operation —lets you operate the TAD from a remote touch-tone phone or from a pulse phone using a pocket tone dialer (not supplied).

Toll Saver — lets you set the TAD to answer after two rings only if there are new messages. This saves unnecessary toll charges when you call by long-distance to check your messages.

Remote Answer-On — lets you use a remote phone to set the TAD to answer calls.

Call Screening — lets you listen as a caller leaves a message so you can decide whether or not to answer the call.

Memo Recording — lets you leave reminders for yourself or messages for others in your home or office.

VOX (Voice-Operated Transmission) — stops recording after several seconds of silence to conserve tape space.

Message Indicator — shows how many messages and memos are recorded on the tape.

Single Microcassette — records incoming messages and serves as a backup for the outgoing message in case of a power failure.

This TAD has been tested and found to comply with all applicable UL and FCC standards.

For your records, we suggest you record your TAD's serial number in the space below. The serial number is on the bottom of the TAD.

Serial Number:_____

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Warning: To prevent fire or shock hazard, do not expose this product to rain or moisture.

	CAUTION	
	RISK OF ELECTRIC SHOCK. DO NOT OPEN.	

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.

This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

READ THIS BEFORE INSTALLATION

We have designed your TAD to conform to federal regulations, and you can connect it to most telephone lines. However, each device you connect to the phone line draws power from it. This power draw is the device's Ringer Equivalence Number, or REN. The REN is shown on the bottom of the TAD.

If you use more than one phone or other device on the line, add up all the RENs. If the total is more than five (or three in rural areas), your phone(s) might not ring and your TAD might not answer. If ringer operation is impaired, remove one of the devices from the line.

FCC STATEMENT

Your TAD complies with Part 68 of *FCC Rules*. You must, upon request, provide the FCC registration number and the REN to your telephone company. Both numbers are marked on the bottom of the TAD.

Note: You must not connect the TAD to:

- Coin-operated systems
- Party-line systems
- Most electronic key phone systems

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PREPARATION

CHOOSING A LOCATION

Select a location for the TAD that is near a modular telephone jack and an AC outlet and away from normal activities.

Note: Your TAD connects to a modular phone line jack. If your telephone wiring does not have a modular jack, you can update the wiring yourself or have the telephone company update it for you.

- Radio Shack stores sell jacks and adapters to convert older wiring methods to modular wiring.
- The telephone company charges to install the necessary jacks.
- The USOC number of the jack to be installed is RJ11C.

CONNECTING TO THE PHONE LINE

To connect the TAD to the phone line, plug **TEL. LINE** into a modular phone jack.

If you want to connect the TAD and your phone to the same phone line, plug the telephone cord's modular plug into **TEL.** on the back of the TAD.

INSTALLING THE CASSETTE TAPE

Your TAD is supplied with an MC-30 tape (15 minutes recording time per side). You can buy additional and different length cassettes at your local Radio Shack store.

Follow these steps to install the tape.

1. Remove the cassette's stopper bracket, then turn its hub clockwise with a pencil to take up any tape slack.

2. Lift the cassette compartment cover from the recessed area to the right of the compartment.

3. Remove the tape head spacer.

4. Install the cassette in the compartment with the cassette's open end toward the front of the TAD and the full reel to the right.

5. Close the cover.

Note: Replace the tape at least once a year, or more often if used heavily.

CONNECTING TO POWER

Caution: To prevent the TAD from locking up, be sure the supplied cassette tape is installed before you connect the TAD to power. If the TAD locks up, simply disconnect power, install the cassette tape, then reconnect power.

To connect AC power, plug the supplied AC adapter's barrel plug into the TAD's **DC 9V** jack. Then plug the adapter into a standard AC outlet.

Caution: You must use a Class II, 9 volt DC adapter that delivers at least 500 milliamps. Its center tip must be set to negative and its plug must correctly fit the TAD's **DC 9V** jack. The supplied adapter meets these requirements. Using an adapter that does not meet these requirements could damage the TAD or the adapter.

Note: When you first plug the adapter into power, or when power is restored after a power failure, the TAD can take up to 1 minute to position the tape. If you have not recorded an outgoing message, the TAD rewinds the tape and sounds four beeps (see "Recording the Outgoing Message").

OPERATION

RECORDING THE OUTGOING MESSAGE

Before you can set the TAD to answer calls, you must record the outgoing message (the announcement that the caller hears when the TAD answers a call).

The maximum length your outgoing message can be is 16 seconds.

Caution: To be safe, do not tell callers that you are away. Instead, say that you cannot come to the phone.

Follow these steps to record the announcement.

1. Press and hold **ANNOUNCE** for 2 seconds until the TAD beeps.
2. Speak in a normal voice about 12 inches from the front of the TAD. Ask for the caller's name, phone number, and message.
3. Press **STOP/ERASE** when you finish your outgoing message. The TAD beeps once and automatically plays your outgoing message twice.

Note: The TAD first records your outgoing message onto its digital chip and stores the message there. When the TAD plays the message a second time, it copies the message from the digital chip to the microcassette. This stores the outgoing message in case of a power loss.

To check the outgoing message, simply press **ANNOUNCE**. The TAD plays the outgoing message.

Note: Adjust **VOLUME HI/LO** on the right side of the TAD for a comfortable listening level. This does not affect the volume of the message on the telephone line.

SETTING THE ANSWER IMM/DEL/TOL S SWITCH

The **ANSWER IMM/DEL/TOL S** switch on the back of the TAD controls how long the TAD waits before it answers a call.

IMM (Immediate Answer) — The TAD answers on the first or second ring.

DEL (Delayed Answer) — The TAD answers after four rings.

TOL S (Toll Saver) — If there are no messages, the TAD answers after about four rings. If there *are* messages, the TAD answers after about two rings. This gives you time to hang up before the TAD answers so you can avoid unnecessary charges if you call by long-distance.

SETTING THE TAD TO ANSWER CALLS

When you press **ANSWER**, the TAD sounds a beep, rewinds to the beginning of the incoming messages, and is set to answer calls. The answer indicator lights steadily.

If you do not want the TAD to answer calls, press **ANSWER** so the TAD beeps once and the answer indicator turns off.

Notes:

- If you have not recorded the outgoing announcement, the TAD sounds four beeps when you press **ANSWER**. You must record the outgoing announcement before you can record calls.
- The answer indicator flashes while the TAD answers a call and records a message.
- When the caller hangs up, when 60 seconds elapse, or when there are more than 8 seconds of silence, the TAD hangs up and resets to answer the next call.
- After the TAD records a message, it rewinds to the beginning of the tape to update its backup information and then resets to record the next message.

  When the tape is full, you can erase the tape (see “Erasing Messages”) or install a new one, but do not turn the tape over. Otherwise, the TAD will not operate properly.

- If the message tape becomes full while a caller is leaving a message, the TAD sounds four beeps and hangs up. The answer indicator repeatedly flashes four times.
- When the tape is full, the TAD answers and sounds eight beeps instead of playing the messages.

SCREENING CALLS

If you want to screen incoming calls while you're at home, let the TAD answer the call for you. When the caller starts speaking, let the TAD record the message. Or, to talk to the caller, pick up any phone connected to the same phone line as the TAD. Press **STOP/ERASE** on the TAD to stop recording and reset the TAD to answer the next call.

PLAYING MESSAGES

When you have new messages, the answer indicator flashes to show the number of new messages recorded. For example, if you have three new messages, the indicator flashes three times, pauses, again flashes three times, etc.

Note: The TAD can record more than 99 messages (depending on their length), but the answer indicator can only flash up to 99 times.

To play back the recorded messages, press **PLAY/FAST-F**. The TAD rewinds the tape and plays the messages.

At the beginning of each message, the TAD sounds one beep. After the TAD plays all incoming messages, it beeps twice.

The messages are saved until you erase them (see "Erasing Messages").

REWIND AND FAST-FORWARD

To replay a message while the tape plays, press and hold down **MEMO/REWIND**. The tape automatically rewinds, then stops at the beginning of the messages. To start play again, release the button.

To fast-forward the tape, press and hold down **PLAY/FAST-F**. You can hear sound as you fast-forward. The tape automatically stops at the end of the messages or begins normal play when you release **PLAY/FAST-F**.

ERASING MESSAGES

Note: Be sure you have played all the messages before you erase them.

When the TAD beeps twice after all the messages play, press **STOP/ ERASE**. The TAD beeps once and rewinds to the beginning of the incoming messages. The answer indicator lights steadily, and the TAD resets to answer calls. New messages record over the old ones.

RECORDING A MEMO

Follow these steps to record a reminder for yourself or a message for someone in your home of office.

Notes:

- Be sure you set the TAD to answer calls before you record a memo. Otherwise, the answer indicator will not flash after the TAD records the memo.
- The maximum recording time for a memo is 60 seconds.

1. Press **MEMO/REWIND**. The TAD beeps once.
2. Begin recording the message. Speak in a clear voice about 12 inches away from the front of the TAD.
3. When you finish speaking, press **STOP/ERASE**. The answer indicator flashes.

The TAD records the memo as an incoming message, and plays it back when you play all the incoming messages.

REMOTE OPERATION

While you are away from your home or office, you can use a touch-tone phone, or a pulse phone with a pocket tone dialer (such as Cat. No. 43-139), to enter a one-digit remote operation security code and do any of the following:

- Set the TAD to start or stop answering calls
- Play or erase your messages
- Record a new outgoing message

Notes:

- If you are using a pulse phone, follow the pocket tone dialer's instructions.
- Your one-digit remote operation security code is on the bottom of the TAD.
- Each time you enter a remote operation security code or command code, hold down the selected button for at least 2 seconds.

REMOTE ANSWER-ON

Note: You must record an outgoing message before you can remotely set the TAD to answer calls (see "Recording the Outgoing Message").

1. Dial your phone number. After 60 seconds, the TAD answers with four beeps.
2. Enter the remote operation security code within 8 seconds. The TAD beeps once, plays the outgoing message, then begins recording.

   Note: If you do not enter the security code within 8 seconds, the TAD disconnects the call.
3. Hang up.

Note: If you want to use any remote control commands at this point, see "Using Remote Control Commands."

USING REMOTE CONTROL COMMANDS

Follow these steps to operate the TAD from a remote phone.

Note: The TAD resets itself to answer calls after remote operation, unless you enter remote control command 2 (Answer Off) without listening to your messages.

1. Dial your phone number.
2. After the outgoing message plays and the TAD sounds a beep, enter the remote operation security code within 8 seconds.

   Notes:

   - If you do not correctly enter the remote operation security code within 8 seconds, the TAD disconnects the call.
   - If the tape is full when you call the TAD, the TAD sounds eight beeps instead of the outgoing message. Enter the remote operation security code within 8 seconds.
3. After the TAD beeps (a command prompt), enter a remote command within 8 seconds by pressing the number for the desired command. See “Remote Control Command Descriptions.”

After each operation, the TAD beeps. To end remote operation, hang up the phone.

Notes:

- If you do not enter a command within 8 seconds after a command prompt, the TAD sounds a beep and hangs up.
- If you hang up while the TAD plays back messages, the TAD might not recognize that you hung up. If someone calls while the TAD continues to play the messages, the caller hears a busy signal.

Remote Control Command Descriptions

Key	Command	Description
1	Record Outgoing Message	Press **1** to record a new outgoing message. After the TAD sounds one short then one long beep, begin your new outgoing message. When you finish your message, press **1** again to end the recording. The TAD replays your new outgoing message.
2	Remote Answer Off	Without listening to your messages first, press **2** to set the TAD to not answer incoming calls. The TAD beeps, disconnects the call, and turns off.
	Erase Messages	After you listen to your incoming messages, the TAD beeps twice. Press **2** to have the TAD record new messages over the old ones. The TAD beeps twice then erases the messages.
3	Remote Play	Press **3** to play the incoming messages. The TAD sounds tones while it rewinds the tape. Then it beeps and plays back your incoming messages.
	Replay Messages	After playing your messages, the TAD beeps twice. To replay messages, press **3** so the TAD beeps once more, then press **3** again. The TAD sounds tones while it rewinds the tape, then it beeps and replays your messages.

PROBLEM-SOLVING

We do not expect you to have any problems with your TAD, but if you do, the information in this chart might help. If you still have problems, take the TAD to your local Radio Shack store for assistance.

Problem	Cause/Solution
The TAD does not answer calls.	• Bad phone line connection. Check and reconnect. • Bad AC power connection. Check and reconnect. • The TAD is not set to answer calls. Press **ANSWER** so the answer indicator lights or use the remote commands to set it to answer calls. • You have not recorded an outgoing message. Record the outgoing message.
The TAD does not record the callers' messages.	The message tape is full. Erase the messages (see "Erasing Messages").
The TAD records a dial tone, beeping, or the operator's voice instead of the caller's message.	The caller hung up without leaving a message or using the maximum time, and the TAD did not detect 8 seconds of silence.
Recording sound distorted.	• You were too close to the microphone or you spoke too loudly when you recorded the outgoing message or memo. Re-record, speaking from about 12 inches from the front of the TAD. • The tape heads are dirty (see "Cleaning the Tape-Handling Parts"). • The tape is worn out. Replace the cassette.

Problem	Cause/Solution
You cannot operate the TAD by remote.	• You are using a pulse phone. Use a touch-tone phone or pocket tone dialer. • The tone output from the phone or tone dialer is not long enough. Use another phone or dialer. The phone or pocket tone dialer must be capable of sending a continuous tone while you hold down the button. • You did not correctly enter the remote operation security code. Enter the code within 8 seconds, and make sure you press the number for at least 2 seconds. • You did not enter a remote command within 8 seconds after the command prompt. (The TAD beeps and hangs up.)

CARE AND MAINTENANCE

Your Radio Shack TAD-222 Touch Tone Remote Control Answering System is an example of superior design and craftsmanship. The following suggestions will help you care for your TAD-222 so you can enjoy it for years.

Keep the TAD-222 dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.

Handle the TAD-222 gently and carefully. Dropping it can damage circuit boards and cases and can cause the TAD-222 to work improperly.

Use and store the TAD-222 only in normal temperature environments. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts.

Keep the TAD-222 away from dust and dirt, which can cause premature wear of parts.

Wipe the TAD-222 with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the TAD-222.

Modifying or tampering with the TAD-222's internal components can cause a malfunction and might invalidate your TAD-222's warranty. If your TAD-222 is not performing as it should, take it to your local Radio Shack store for assistance.

CLEANING THE TAPE-HANDLING PARTS

We suggest you clean the tape-handling parts about every 30 days.

Press **STOP/ERASE** and remove the cassette. Then gently clean the parts shown in the illustration with a cotton swab dipped in tape head cleaning solution. Tape head cleaning supplies are available at your local Radio Shack store.

Caution: To avoid damage to the tape head, never use a chemical not approved for tape head cleaning and never touch the head with your fingers or any metal object.

THE FCC WANTS YOU TO KNOW

In the unlikely event that your TAD causes problems on the telephone line, the telephone company can disconnect your service. The phone company attempts to notify you in advance. If advance notice is not practical, the phone company notifies you of your right to file a complaint with the FCC.

Also, the phone company can make changes to its lines, equipment, operations, or procedures that could affect the operation of this TAD. The phone company notifies you of these changes in advance so you can take the necessary steps to prevent interruption of your phone services.

LIGHTNING

Your TAD has built-in protection circuits to reduce the risk of damage from surges in the phone and power line current. These protection circuits meet or exceed FCC requirements. However, lightning striking the phone line or power lines can damage your TAD.

Lightning damage is not common. Nevertheless, if you live in an area that has severe electrical storms, we suggest that you unplug your TAD during storms to reduce the possibility of damage.

NOTES

RADIO SHACK LIMITED WARRANTY

This telephone product is warranted against manufacturing defects in material and workmanship for one (1) year from the date of purchase from Radio Shack company owned stores and authorized Radio Shack franchisees and dealers. Within this period **bring your Radio Shack sales slip** as proof-of-purchase date to any Radio Shack store.

This warranty does not cover damage or failure caused by or attributable to Acts of God, abuse, misuse, improper or abnormal usage, faulty installation, improper maintenance, lightning or other incidence of excess voltage, or any repairs other than those provided by a Radio Shack Authorized Service Facility, or transportation costs. **Radio Shack is not responsible or liable for indirect, special, or consequential damages arising out of or in connection with the use or performance of the product or other damages with respect to loss of property, loss of revenue or profit, or costs of removal, installation or reinstallation.**

EXCEPT AS PROVIDED HEREIN, RADIO SHACK MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. Some states do not allow the limitation or exclusion of incidental or consequential damages and some states do not allow limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser. There will be charges rendered for repairs to the product made after the expiration of the aforesaid one (1) year warranty period.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

We Service What We Sell *9/94*

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A Division of Tandy Corporation
Fort Worth, Texas 76102

7A5 Printed in Taiwan